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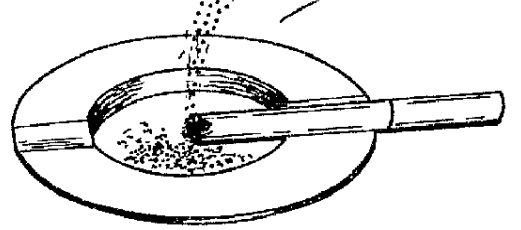
Federal Trade Commission

Report of

"TAR" AND NICOTINE CONTENT OF THE SMOKE OF 130 VARIETIES OF CIGARETTES



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REPORT OF "TAR" AND NICOTINE CONTENT OF THE SMOKE OF 130 VARIETIES OF CIGARETTES
September 1974

The Federal Trade Commission's Laboratory has determined the "tar" (dry particulate matter) and total alkaloid (reported as nicotine) content of 130 varieties of cigarettes. The laboratory utilized the Cambridge filter method with the following specifications as set forth in the Commission's announcement of July 31, 1967:

1. Smoke cigarettes to a 23 mm. butt length or to the length, of the filter and overwrap plus 3 mm. if in excess of 23 mm.

2. Base results on a test of 100 cigarettes per brand, or type.

3. Cigarettes to be tested will be selected on a random basis, as opposed to "weight selection".

4. Determine particulate matter on a "dry" basis employing the gas chromatography method published by C.H. Sloan and B.J. Sublett in Tobacco Science 9, page 70, 1965, as modified by F.J. Schultz' and A.W. Spears' report published in Tobacco Vol. 162, No. 24, page 32, dated June 17, 1966, to determine the moisture content.

5. Determine and report the "tar" content after subtracting moisture and alkaloids (as nicotine) from particulate matter.

Concerning the 130 varieties tested, 25 were capable of being smoked to 23 mm. or to an average range of between 23 and 25.0 mm. The butt lengths of the other 105 varieties tested ranged from 23 mm. to an average of between 39.5 and 41.5 The butt lengths of 63 of the 130 varieties tested exceeded 30 mm.

The samples used were obtained by attempting to purchase two packages of each variety of cigarettes during March 1974 in each of 50 geographic locations throughout the country. All varieties of cigarettes were not available in each of the 50 geographic locations and in these instances, one or more additional packages of cigarettes were purchased in those geographic locations where respective varieties were available. The samples utilized in the tests were representative of the 130 varieties of cigarettes as available throughout the country at the time of purchase.

In the Table listing the cigarette varieties in alphabetical order the "tar" content is reported to the nearest 1/10 milligram and the nicotine to the nearest 1/100 milligram, each with appropriate statistical values. The average weight is reported in grams per cigarette and the butt length range to the nearest 1/10 millimeter. In all other tables the average weight and butt length columns and the figures representing the standard deviation of the mean have been eliminated; the "tar" figures have been rounded off to whole numbers and nicotine figures to tenths of milligrams. These rounded figures may not appear to agree with those in the other tables of this report as they have been rounded from original data. Two tables respectively list varieties in increasing order of "tar" values and in increasing order of nicotine values, the other two lists tabulate the current and four previous tests. Accordingly, "tar" and nicotine figures in these tables and lists represent rounded off averages without indication of their precision.

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"Tar"[4] and Nicotine[5] Content of One-Hundred thirty (130) Varieties of Domestic Cigarettes

Brand	Type[1]		Average weight[2]	Butt length[3]	TPM dry[4] *	Nicotine[5] *
Alpine	F, M, SP	85 mm	0.9766	28.5 - 30.2 mm	13.3 ± 0.3	0.87 ± 0.02
Alpine	F, HP	100 mm	0.9257	35.0 - 36.7 mm	14.3 ± 0.3	0.91 ± 0.03
Belair	F, M, SP	85 mm	0.9724	28.3 - 31.5 mm	15.5 ± 0.4	1.13 ± 0.03
Belair	F, M, SP	100 mm	1.1051	34.5 - 38.0 mm	16.8 ± 0.4	1.21 ± 0.03
Benson & Hedges	F, HP	70 mm	0.8609	27.0 - 29.3 mm	9.1 ± 0.4	0.56 ± 0.03
Benson & Hedges	F, HP	85 mm	1.0379	33.5 - 34.5 mm	15.6 ± 0.3	1.07 ± 0.01
Benson & Hedges 100's	F, SP	100 mm	1.0956	35.0 - 37.0 mm	16.8 ± 0.2	1.11 ± 0.02
Benson & Hedges 100's	F, M, SP	100 mm	1.0981	35.0 - 37.0 mm	17.0 ± 0.3	1.15 ± 0.02
Bull Durham	F, SP	85 mm	1.1488	27.0 - 28.7 mm	29.8 ± 0.6	1.97 ± 0.03
Camel	NF, SP	70 mm	0.8927	23 mm	24.7 ± 0.5	1.58 ± 0.03
Camel Filters	F, SP	85 mm	0.9971	27.5 - 29.5 mm	18.7 ± 0.5	1.28 ± 0.02
Carlton 70's[6]	F, SP	70 mm	0.8385	33.5 - 34.0 mm	1.6 ± 0.1	0.15 ± 0.01
Carlton	F, SP	85 mm	1.0237	32.0 - 35.0 mm	4.1 ± 0.1	0.35 ± 0.02
Carlton	F, M, SP	85 mm	1.0157	32.3 - 35.0 mm	4.0 ± 0.2	0.33 ± 0.01
Chesterfield	NF, SP	70 mm	0.8710	23 mm	24.5 ± 0.4	1.50 ± 0.03
Chesterfield	NF, SP	85 mm	1.0336	23 mm	28.8 ± 0.5	1.77 ± 0.04
Chesterfield	F, SP	85 mm	0.9270	26.3 - 28.5 mm	18.5 ± 0.3	1.27 ± 0.03
Chesterfield	F, M, SP	85 mm	0.9813	27.2 - 28.3 mm	18.0 ± 0.4	1.20 ± 0.04
Chesterfield	F, SP	101 mm	1.0866	30.0 - 34.5 mm	19.8 ± 0.3	1.43 ± 0.02
Domino	NF, SP	85 mm	1.2851	23 mm	27.2 ± 0.6	1.29 ± 0.05
Domino	F, SP	85 mm	1.0952	27.5 - 29.3 mm	19.6 ± 0.6	1.17 ± 0.03
Doral	F, SP	85 mm	1.1342	33.5 - 35.0 mm	14.3 ± 0.3	1.02 ± 0.03
Doral	F, M, SP	85 mm	1.1596	32.5 - 34.0 mm	13.5 ± 0.2	0.96 ± 0.02
DuMaurier	F, HP	85 mm	1.0325	28.0 - 29.3 mm	15.7 ± 0.2	1.05 ± 0.02
Edgeworth Export	F, HP	85 mm	1.0845	26.5 - 27.7 mm	22.0 ± 0.5	1.57 ± 0.04
Edgeworth Export	F, SP	100 mm	1.2373	31.7 - 33.0 mm	20.8 ± 0.5	1.38 ± 0.03
English Ovals	NF, HP	70 mm	0.9287	23 mm	22.0 ± 0.4	1.55 ± 0.04
English Ovals	NF, HP	85 mm	1.1396	23 mm	28.1 ± 0.4	2.08 ± 0.04
Eve	F, SP	100 mm	1.0651	32.0 - 35.0 mm	18.3 ± 0.4	1.31 ± 0.03
Eve	F, M, SP	100 mm	1.0573	33.5 - 35.0 mm	17.4 ± 0.3	1.15 ± 0.02
Fatima	NF, SP	85 mm	1.0787	23 mm	28.4 ± 0.6	1.72 ± 0.06
Frappe	F, M, SP	85 mm	1.0897	26.3 - 29.0 mm	8.8 ± 0.3	0.32 ± 0.01
Galaxy	F, SP	85 mm	1.0701	27.0 - 29.0 mm	15.2 ± 0.4	1.06 ± 0.03
Half & Half	F, SP	85 mm	1.1454	27.0 - 28.5 mm	25.1 ± 0.5	1.85 ± 0.04
Herbert Tareyton	NF, SP	85 mm	1.1357	23 mm	30.1 ± 0.7	1.86 ± 0.06
Home Run	NF, SP	70 mm	0.8578	23 mm	19.8 ± 0.6	1.55 ± 0.05
Iceberg 10	F, M, SP	85 mm	1.1797	33.2 - 34.2 mm	8.8 ± 0.2	0.61 ± 0.01
Iceberg 100's	F, M, SP	100 mm	1.2845	37.0 - 39.5 mm	8.5 ± 0.2	0.62 ± 0.02
Kent	F, HP	80 mm	0.9255	27.0 - 28.5 mm	14.8 ± 0.3	0.92 ± 0.02
Kent	F, SP	85 mm	0.9915	27.5 - 29.7 mm	15.8 ± 0.3	0.99 ± 0.02
Kent	F, SP	100 mm	1.1195	32.8 - 34.0 mm	18.3 ± 0.2	1.16 ± 0.03
Kent	F, M, SP	100 mm	1.1277	33.5 - 35.5 mm	17.5 ± 0.3	1.18 ± 0.03
King Sano	F, SP	85 mm	1.1358	29.3 - 31.3 mm	7.3 ± 0.4	0.29 ± 0.02
King Sano	F, M, SP	85 mm	1.1133	27.2 - 29.5 mm	6.5 ± 0.3	0.27 ± 0.02
Kool	NF, M, SP	70 mm	0.8730	23 mm	21.0 ± 0.4	1.33 ± 0.04
Kool	F, M, SP	85 mm	0.9683	28.3 - 31.0 mm	16.6 ± 0.4	1.31 ± 0.03
Kool Milds	F, M, SP	85 mm	0.9674	32.5 - 35.5 mm	13.9 ± 0.3	0.89 ± 0.03
Kool	F, M, SP	100 mm	1.1117	34.0 - 37.0 mm	17.3 ± 0.4	1.28 ± 0.04
L & M	F, HP	80 mm	0.8731	26.5 - 28.5 mm	17.2 ± 0.4	1.18 ± 0.03
L & M	F, SP	85 mm	0.9305	25.5 - 28.3 mm	18.2 ± 0.4	1.25 ± 0.02
L & M	F, SP	100 mm	1.1013	32.5 - 34.5 mm	20.1 ± 0.3	1.44 ± 0.03
L & M	F, M, SP	100 mm	1.0966	31.0 - 34.5 mm	18.7 ± 0.3	1.27 ± 0.03
Lark	F, SP	85 mm	1.0566	28.0 - 29.3 mm	17.5 ± 0.3	1.16 ± 0.02
Lark	F, SP	100 mm	1.1789	30.8 - 32.5 mm	19.0 ± 0.3	1.28 ± 0.04
Life	F, SP	100 mm	1.1236	37.7 - 40.5 mm	11.9 ± 0.2	0.81 ± 0.02
Lucky Strike	NF, SP	70 mm	0.9076	23 mm	27.3 ± 0.5	1.66 ± 0.03
Lucky Filters	F, SP	100 mm	1.1286	32.0 - 34.3 mm	21.3 ± 0.4	1.58 ± 0.03
Lucky Ten	F, SP	85 mm	1.2065	33.5 - 34.0 mm	9.8 ± 0.3	0.66 ± 0.01
Lucky 100's	F, SP	100 mm	1.2992	38.5 - 40.5 mm	9.8 ± 0.3	0.76 ± 0.03
Luke	F, SP	85 mm	0.9962	28.5 - 29.3 mm	16.9 ± 0.3	1.24 ± 0.02
Mapleton	NF, SP	70 mm	1.0296	23 mm	29.6 ± 0.6	1.26 ± 0.02
Mapleton	F, SP	85 mm	1.1024	27.5 - 31.0 mm	22.6 ± 0.5	1.24 ± 0.03
Marlboro	F, HP	80 mm	0.9255	26.0 - 27.7 mm	16.6 ± 0.2	1.07 ± 0.02
Marlboro	F, SP	85 mm	0.9902	27.3 - 29.5 mm	16.3 ± 0.7	1.08 ± 0.05
Marlboro	F, M, SP	85 mm	0.9858	29.7 - 30.5 mm	13.2 ± 0.3	0.86 ± 0.03

1 F-filter; NF-non-filter; M-menthol; HP-hard pack; SP-soft pack; mm-millimeter; PB-plastic box
2 average weight reported in grams
3 range used for butt length because of variance of overwrap
4 TPM dry (tar) - milligrams total particulate matter less nicotine and water
5 milligrams total alkaloids reported as nicotine
6 limited availability based on reduced sampling from Washington, D. C. only
* tolerance shown is two (2) standard deviation of the mean

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"Tar"[4] and Nicotine[5] Content of One-Hundred thirty (130) Varieties of Domestic Cigarettes

Brand	Type[1]		Average weight[2]	Butt length[3]	TPM dry[4] *	Nicotine[5] *
Marlboro	F, HP	100 mm	1.0853	34.3 - 35.3 mm	16.3 ± 0.4	1.12 ± 0.03
Marlboro	F, SP	100 mm	1.1118	34.5 - 36.0 mm	16.8 ± 0.3	1.13 ± 0.03
Marlboro Lights	F, SP	85 mm	1.0894	32.0 - 33.5 mm	12.4 ± 0.4	0.86 ± 0.02
Marvels	NF, SP	70 mm	0.9663	23 mm	18.3 ± 0.7	0.58 ± 0.02
Marvels	NF, SP	85 mm	1.1534	23 mm	29.9 ± 0.6	1.06 ± 0.03
Marvels	F, SP	85 mm	1.0886	28.0 - 29.7 mm	5.4 ± 0.3	0.23 ± 0.01
Marvels	F, M, SP	85 mm	1.0864	27.7 - 30.0 mm	4.2 ± 0.3	0.19 ± 0.01
Montclair	F, M, SP	85 mm	1.0136	27.0 - 29.0 mm	19.0 ± 0.3	1.47 ± 0.03
Multifilter	F, PB	85 mm	1.1531	31.8 - 34.5 mm	12.3 ± 0.2	0.88 ± 0.02
Multifilter	F, M, PB	85 mm	1.1418	33.0 - 34.3 mm	11.5 ± 0.3	0.81 ± 0.02
Newport	F, M, HP	80 mm	0.9425	23.5 - 25.5 mm	17.6 ± 0.4	1.21 ± 0.02
Newport	F, M, SP	85 mm	0.9610	25.5 - 29.0 mm	17.8 ± 0.3	1.22 ± 0.02
Newport	F, M, SP	100 mm	1.1172	32.0 - 35.0 mm	20.5 ± 0.3	1.46 ± 0.03
Oasis	F, M, SP	85 mm	0.9692	27.3 - 28.3 mm	18.5 ± 0.4	1.26 ± 0.03
Old Gold Straights	NF, SP	70 mm	0.8696	23 mm	20.9 ± 0.5	1.24 ± 0.03
Old Gold Straights	NF, SP	85 mm	1.0438	23 mm	23.7 ± 0.4	1.46 ± 0.03
Old Gold Filters	F, SP	85 mm	0.9905	27.5 - 28.7 mm	17.9 ± 0.3	1.14 ± 0.02
Old Gold 100's	F, SP	100 mm	1.1260	32.5 - 35.0 mm	21.3 ± 0.4	1.44 ± 0.03
Pall Mall	NF, SP	85 mm	1.0694	23 mm	27.5 ± 0.6	1.74 ± 0.04
Pall Mall Extra Mild	F, HP	80 mm	1.1928	33.0 - 33.3 mm	9.9 ± 0.3	0.71 ± 0.03
Pall Mall Extra Mild	F, SP	85 mm	1.2065	33.5 - 34.5 mm	10.0 ± 0.2	0.70 ± 0.02
Pall Mall	F, SP	100 mm	1.1706	33.0 - 36.3 mm	19.2 ± 0.8	1.41 ± 0.04
Pall Mall	F, M, SP	100 mm	1.1690	33.0 - 36.5 mm	17.4 ± 0.6	1.34 ± 0.04
Parliament	F, HP	80 mm	0.9800	31.2 - 35.0 mm	14.4 ± 0.4	0.89 ± 0.03
Parliament	F, SP	85 mm	1.0442	33.0 - 34.5 mm	13.5 ± 0.3	0.82 ± 0.02
Parliament 100's	F, SP	100 mm	1.3437	39.5 - 41.5 mm	17.4 ± 0.3	1.12 ± 0.03
Peter Stuyvesant	F, SP	85 mm	1.0727	27.5 - 28.0 mm	19.7 ± 0.4	1.36 ± 0.02
Peter Stuyvesant	F, SP	100 mm	1.2500	32.0 - 33.0 mm	22.1 ± 0.4	1.51 ± 0.04
Philip Morris	NF, SP	70 mm	0.9193	23 mm	22.0 ± 0.4	1.33 ± 0.04
Philip Morris Commander	NF, SP	85 mm	1.0559	23 mm	26.1 ± 0.6	1.57 ± 0.04
Picayune	NF, SP	70 mm	0.8858	23 mm	19.9 ± 0.4	1.60 ± 0.04
Piedmont	NF, SP	70 mm	0.8900	23 mm	24.2 ± 0.5	1.48 ± 0.03
Players	NF, HP	70 mm	1.1018	23 mm	31.1 ± 0.6	2.10 ± 0.04
Raleigh	NF, SP	85 mm	1.0845	23 mm	24.4 ± 0.7	1.45 ± 0.04
Raleigh	F, SP	85 mm	1.0251	29.0 - 30.8 mm	15.2 ± 0.4	1.03 ± 0.03
Raleigh	F, SP	100 mm	1.1507	34.5 - 36.7 mm	16.7 ± 0.2	1.11 ± 0.02
Raleigh Extra Mild	F, SP	85 mm	1.0060	33.5 - 35.0 mm	13.8 ± 0.2	0.92 ± 0.02
St. Moritz	F, SP	100 mm	1.2647	36.7 - 37.5 mm	19.0 ± 0.4	1.25 ± 0.03
St. Moritz	F, M, SP	100 mm	1.2974	37.7 - 39.5 mm	19.8 ± 0.4	1.32 ± 0.04
Safari	F, SP	100 mm	1.2011	35.0 - 37.0 mm	19.6 ± 0.4	1.40 ± 0.03
Salem	F, M, SP	85 mm	1.0113	28.0 - 30.0 mm	18.0 ± 0.4	1.24 ± 0.03
Salem	F, M, SP	100 mm	1.1980	34.5 - 35.3 mm	19.1 ± 0.2	1.31 ± 0.02
Sano	NF, SP	70 mm	1.0248	23 mm	16.4 ± 0.5	0.53 ± 0.02
Silva Thins	F, SP	100 mm	0.9393	24.5 - 32.5 mm	16.2 ± 0.3	1.21 ± 0.02
Silva Thins	F, M, SP	100 mm	1.0721	32.5 - 34.8 mm	16.2 ± 0.3	1.12 ± 0.02
Spring 100's	F, M, SP	100 mm	1.1336	33.5 - 35.5 mm	19.4 ± 0.5	1.09 ± 0.03
Tareyton	F, SP	85 mm	1.0992	27.0 - 29.0 mm	19.7 ± 0.4	1.35 ± 0.03
Tareyton	F, SP	100 mm	1.2604	33.5 - 37.5 mm	19.5 ± 0.5	1.40 ± 0.03
Tempo	F, SP	85 mm	1.0382	32.7 - 35.0 mm	11.1 ± 0.4	0.81 ± 0.02
True	F, SP	85 mm	1.0221	33.3 - 35.5 mm	11.3 ± 0.3	0.68 ± 0.02
True	F, M, SP	85 mm	1.0128	32.3 - 35.7 mm	11.6 ± 0.4	0.70 ± 0.02
Twist[7]	F, L/M, SP	100 mm	1.1422	33.0 - 34.7 mm	16.8 ± 0.3	1.28 ± 0.03
Vantage	F, SP	85 mm	1.2325	33.3 - 34.5 mm	11.3 ± 0.2	0.74 ± 0.02
Vantage	F, M, SP	85 mm	1.1841	33.5 - 34.5 mm	11.1 ± 0.3	0.77 ± 0.02
Viceroy	F, SP	85 mm	1.0367	27.5 - 30.5 mm	15.7 ± 0.4	1.05 ± 0.03
Viceroy	F, SP	100 mm	1.1476	33.0 - 37.0 mm	16.7 ± 0.4	1.15 ± 0.03
Viceroy Extra Mild	F, SP	85 mm	1.0122	32.7 - 35.3 mm	14.6 ± 0.3	0.97 ± 0.02
Virginia Slims	F, SP	100 mm	0.9580	35.7 - 36.5 mm	15.5 ± 0.4	1.02 ± 0.03
Virginia Slims	F, M, SP	100 mm	0.9657	34.7 - 36.0 mm	15.3 ± 0.3	1.01 ± 0.02
Vogue (black)	F, HP	85 mm	1.1372	24.5 - 25.3 mm	29.7 ± 0.5	1.13 ± 0.03
Vogue (colors)	F, HP	85 mm	1.1050	23.0 - 25.0 mm	21.6 ± 0.5	0.83 ± 0.03
Winston	F, HP	80 mm	0.9616	25.0 - 27.0 mm	19.5 ± 0.3	1.32 ± 0.02
Winston	F, SP	85 mm	1.0247	27.0 - 29.5 mm	19.2 ± 0.5	1.33 ± 0.05
Winston	F, SP	100 mm	1.1841	34.5 - 35.3 mm	18.8 ± 0.3	1.26 ± 0.02
Winston	F, M, SP	100 mm	1.1897	33.5 - 35.0 mm	19.3 ± 0.4	1.34 ± 0.02

1 F-filter; NF-non-filter; M-menthol; HP-hard pack; SP-soft pack; mm-millimeter; PB-plastic box
2 average weight reported in grams
3 range used for butt length because of variance of overwrap
4 TPM dry (tar) - milligrams total particulate matter less nicotine and water
5 milligrams total alkaloids reported as nicotine
6 limited availability based on reduced sampling from Washington, D. C. only
7 L/M - lemon/menthol
* tolerance shown is two (2) standard deviation of the mean

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Tar[1] and Nicotine Content of One-Hundred thirty (130)
Varieties of Domestic Cigarettes
(shown in increasing order of tar values)

Brand	Type	Tar (mg/cig)	Nicotine (mg/cig)
Carlton 70's[2]	reg. size, filter	2	0.2
Carlton	king size, filter, menthol	4	0.3
Carlton	king size, filter	4	0.3
Marvels	king size, filter, menthol	4	0.2
Marvels	king size, filter	5	0.2
King Sano	king size, filter, menthol	7	0.3
King Sano	king size, filter	7	0.3
Iceberg 100's	100 mm, filter, menthol	8	0.6
Frappe	king size, filter, menthol	9	0.3
Iceberg 10	king size, filter, menthol	9	0.6
Benson & Hedges	reg. size, filter, (hard pack)	9	0.6
Lucky Ten	king size, filter	10	0.7
Lucky 100's	100 mm, filter	10	0.8
Pall Mall Extra Mild	king size, filter, (hard pack)	10	0.7
Pall Mall Extra Mild	king size, filter	10	0.7
Tempo	king size, filter	11	0.8
Vantage	king size, filter, menthol	11	0.8
Vantage	king size, filter	11	0.7
True	king size, filter	11	0.7
Multifilter	king size, filter, menthol, (plastic box)	12	0.8
True	king size, filter, menthol	12	0.7
Life	100 mm, filter	12	0.8
Multifilter	king size, filter, (plastic box)	12	0.9
Marlboro Lights	king size, filter	12	0.9
Marlboro	king size, filter, menthol	13	0.9
Alpine	king size, filter, menthol	13	0.9
Doral	king size, filter, menthol	14	1.0
Parliament	king size, filter	14	0.8
Raleigh Extra Mild	king size, filter	14	0.9
Kool Milds	king size, filter, menthol	14	0.9
Alpine	100 mm, filter, (hard pack)	14	0.9
Doral	king size, filter	14	1.0
Parliament	king size, filter, (hard pack)	14	0.9
Viceroy Extra Mild	king size, filter	15	1.0
Kent	king size, filter, (hard pack)	15	0.9
Galaxy	king size, filter	15	1.1
Raleigh	king size, filter	15	1.0
Virginia Slims	100 mm, filter, menthol	15	1.0
Virginia Slims	100 mm, filter	16	1.0
Belair	king size, filter, menthol	16	1.1
Benson & Hedges	king size, filter, (hard pack)	16	1.1
DuMaurier	king size, filter, (hard pack)	16	1.1
Viceroy	king size, filter	16	1.1
Kent	king size, filter	16	1.0
Silva Thins	100 mm, filter	16	1.2
Silva Thins	100 mm, filter, menthol	16	1.1
Marlboro	king size, filter	16	1.1
Marlboro	100 mm, filter, (hard pack)	16	1.1
Sano	reg. size, non-filter	16	0.5
Kool	king size, filter, menthol	17	1.3
Marlboro	king size, filter, (hard pack)	17	1.1
Raleigh	100 mm, filter	17	1.1
Viceroy	100 mm, filter	17	1.1
Belair	100 mm, filter, menthol	17	1.2
Marlboro	100 mm, filter	17	1.1
Benson & Hedges 100's	100 mm, filter	17	1.1
Twist	100 mm, filter, lemon/menthol	17	1.3
Luke	king size, filter	17	1.2
Benson & Hedges 100's	100 mm, filter, menthol	17	1.1
L & M	king size, filter, (hard pack)	17	1.2
Kool	100 mm, filter, menthol	17	1.3
Pall Mall	100 mm, filter, menthol	17	1.3
Parliament 100's	100 mm, filter	17	1.1
Eve	100 mm, filter, menthol	17	1.2
Lark	king size, filter	17	1.2

1 TPM dry (tar) - milligrams total particulate matter less nicotine and water
2 limited availability based on reduced sampling from Washington, D. C. only

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Tar[1] and Nicotine Content of One-Hundred thirty (130)
Varieties of Domestic Cigarettes
(shown in increasing order of tar values)

Brand	Type	Tar (mg/cig)	Nicotine (mg/cig)
Kent	100 mm, filter, menthol	18	1.2
Newport	king size, filter, menthol, (hard pack)	18	1.2
Newport	king size, filter, menthol	18	1.2
Old Gold Filters	king size, filter	18	1.1
Chesterfield	king size, filter, menthol	18	1.2
Salem	king size, filter, menthol	18	1.2
L & M	king size, filter	18	1.2
Eve	100 mm, filter	18	1.3
Marvels	reg. size, non-filter	18	0.6
Kent	100 mm, filter	18	1.2
Oasis	king size, filter, menthol	18	1.3
Chesterfield	king size, filter	19	1.3
L & M	100 mm, filter, menthol	19	1.3
Camel Filters	king size, filter	19	1.3
Winston	100 mm, filter	19	1.3
Lark	100 mm, filter	19	1.3
St. Moritz	100 mm, filter	19	1.2
Montclair	king size, filter, menthol	19	1.5
Salem	100 mm, filter, menthol	19	1.3
Winston	king size, filter	19	1.3
Pall Mall	100 mm, filter	19	1.4
Winston	100 mm, filter, menthol	19	1.3
Spring 100's	100 mm, filter, menthol	19	1.1
Tareyton	100 mm, filter	19	1.4
Winston	king size, filter, (hard pack)	20	1.3
Safari	100 mm, filter	20	1.4
Domino	king size, filter	20	1.2
Peter Stuyvesant	king size, filter	20	1.4
Tareyton	king size, filter	20	1.3
Home Run	reg. size, non-filter	20	1.5
St. Moritz	100 mm, filter, menthol	20	1.3
Chesterfield	101 mm, filter	20	1.4
Picayune	reg. size, non-filter	20	1.6
L & M	100 mm, filter	20	1.4
Newport	100 mm, filter, menthol	20	1.5
Edgeworth Export	100 mm, filter	21	1.4
Old Gold Straights	reg. size, non-filter	21	1.2
Kool	reg. size, non-filter, menthol	21	1.3
Lucky Filters	100 mm, filter	21	1.6
Old Gold 100's	100 mm, filter	21	1.4
Vogue (colors)	king size, filter, (hard pack)	22	0.8
Philip Morris	reg. size, non-filter	22	1.3
English Ovals	reg. size, non-filter, (hard pack)	22	1.5
Edgeworth Export	king size, filter, (hard pack)	22	1.6
Peter Stuyvesant	100 mm, filter	22	1.5
Mapleton	king size, filter	23	1.2
Old Gold Straights	king size, non-filter	24	1.5
Piedmont	reg. size, non-filter	24	1.5
Raleigh	king size, non-filter	24	1.5
Chesterfield	reg. size, non-filter	24	1.5
Camel	reg. size, non-filter	25	1.6
Half & Half	king size, filter	25	1.8
Philip Morris Commander	king size, non-filter	26	1.6
Domino	king size, non-filter	27	1.3
Lucky Strike	reg. size, non-filter	27	1.7
Pall Mall	king size, non-filter	27	1.7
English Ovals	king size, non-filter, (hard pack)	28	2.1
Fatima	king size, non-filter	28	1.7
Chesterfield	king size, non-filter	29	1.8
Mapleton	reg. size, non-filter	30	1.3
Vogue (black)	king size, filter, (hard pack)	30	1.1
Bull Durham	king size, filter	30	2.0
Marvels	king size, non-filter	30	1.1
Herbert Tareyton	king size, non-filter	30	1.9
Players	reg. size, non-filter	31	2.1

1 TPM dry (tar) - milligrams total particulate matter less nicotine and water

PM3000764205

Source: https://www.industrydocuments.ucsf.edu/docs/qhvl0001

Tar[1] and Nicotine Content of One-Hundred thirty (130)
Varieties of Domestic Cigarettes
(shown in increasing order of nicotine values)

Brand	Type	Tar (mg/cig)	Nicotine (mg/cig)
Carlton 70's[2]	reg. size, filter	2	0.2
Marvels	king size, filter, menthol	4	0.2
Marvels	king size, filter	5	0.2
King Sano	king size, filter, menthol	7	0.3
King Sano	king size, filter	7	0.3
Frappe	king size, filter, menthol	9	0.3
Carlton	king size, filter, menthol	4	0.3
Carlton	king size, filter	4	0.3
Sano	reg. size, non-filter	16	0.5
Benson & Hedges	reg. size, filter, (hard pack)	9	0.6
Marvels	reg. size, non-filter	18	0.6
Iceberg 10	king size, filter, menthol	9	0.6
Iceberg 100's	100 mm, filter, menthol	8	0.6
Lucky Ten	king size, filter	10	0.7
True	king size, filter	11	0.7
True	king size, filter, menthol	12	0.7
Pall Mall Extra Mild	king size, filter	10	0.7
Pall Mall Extra Mild	king size, filter, (hard pack)	10	0.7
Vantage	king size, filter	11	0.7
Lucky 100's	100 mm, filter	10	0.8
Vantage	king size, filter, menthol	11	0.8
Tempo	king size, filter	11	0.8
Life	100 mm, filter	12	0.8
Multifilter	king size, filter, menthol, (plastic box)	12	0.8
Parliament	king size, filter	14	0.8
Vogue (colors)	king size, filter, (hard pack)	22	0.8
Marlboro Lights	king size, filter	12	0.9
Marlboro	king size, filter, menthol	13	0.9
Alpine	king size, filter, menthol	13	0.9
Multifilter	king size, filter, (plastic box)	12	0.9
Parliament	king size, filter, (hard pack)	14	0.9
Kool Milds	king size, filter, menthol	14	0.9
Alpine	100 mm, filter, (hard pack)	14	0.9
Raleigh Extra Mild	king size, filter	14	0.9
Kent	king size, filter, (hard pack)	15	0.9
Doral	king size, filter, menthol	14	1.0
Kent	king size, filter	16	1.0
Viceroy Extra Mild	king size, filter	15	1.0
Virginia Slims	100 mm, filter, menthol	15	1.0
Doral	king size, filter	14	1.0
Virginia Slims	100 mm, filter	16	1.0
Raleigh	king size, filter	15	1.0
DuMaurier	king size, filter, (hard pack)	16	1.1
Viceroy	king size, filter	16	1.1
Galaxy	king size, filter	15	1.1
Marvels	king size, non-filter	30	1.1
Marlboro	king size, filter, (hard pack)	17	1.1
Benson & Hedges	king size, filter, (hard pack)	16	1.1
Marlboro	king size, filter	16	1.1
Spring 100's	100 mm, filter, menthol	19	1.1
Raleigh	100 mm, filter	17	1.1
Benson & Hedges 100's	100 mm, filter	17	1.1
Silva Thins	100 mm, filter, menthol	16	1.1
Parliament 100's	100 mm, filter	17	1.1
Marlboro	100 mm, filter, (hard pack)	16	1.1
Vogue (black)	king size, filter, (hard pack)	30	1.1
Belair	king size, filter, menthol	16	1.1
Marlboro	100 mm, filter	17	1.1
Old Gold Filters	king size, filter	18	1.1
Benson & Hedges 100's	100 mm, filter, menthol	17	1.1
Viceroy	100 mm, filter	17	1.1
Eve	100 mm, filter, menthol	17	1.2
Lark	king size, filter	17	1.2
Kent	100 mm, filter	18	1.2
Domino	king size, filter	20	1.2

1 TPM dry (tar) - milligrams total particulate matter less nicotine and water
2 Limited availability based on reduced sampling from Washington, D. C. only

PM3000764206

Source: https://www.industrydocuments.ucsf.edu/docs/qhvl0001

Tar[1] and Nicotine Content of One-Hundred thirty (130)
Varieties of Domestic Cigarettes
(shown in increasing order of nicotine values)

Brand	Type	Tar (mg/cig)	Nicotine (mg/cig)
L & M	king size, filter, (hard pack)	17	1.2
Kent	100 mm, filter, menthol	18	1.2
Chesterfield	king size, filter, menthol	18	1.2
Newport	king size, filter, menthol, (hard pack)	18	1.2
Silva Thins	100 mm, filter	16	1.2
Belair	100 mm, filter, menthol	17	1.2
Newport	king size, filter, menthol	18	1.2
Luke	king size, filter	17	1.2
Salem	king size, filter, menthol	18	1.2
Mapleton	king size, filter	23	1.2
Old Gold Straights	reg. size, non-filter	21	1.2
St. Moritz	100 mm, filter	19	1.2
L & M	king size, filter	18	1.2
Oasis	king size, filter, menthol	18	1.3
Mapleton	reg. size, non-filter	30	1.3
Winston	100 mm, filter	19	1.3
L & M	100 mm, filter, menthol	19	1.3
Chesterfield	king size, filter	19	1.3
Twist	100 mm, filter, lemon/menthol	17	1.3
Lark	100 mm, filter	19	1.3
Camel Filters	king size, filter	19	1.3
Kool	100 mm, filter, menthol	17	1.3
Domino	king size, non-filter	27	1.3
Kool	king size, filter, menthol	17	1.3
Eve	100 mm, filter	18	1.3
Salem	100 mm, filter, menthol	19	1.3
Winston	king size, filter, (hard pack)	20	1.3
St. Moritz	100 mm, filter, menthol	20	1.3
Philip Morris	reg. size, non-filter	22	1.3
Winston	king size, filter	19	1.3
Kool	reg. size, non-filter, menthol	21	1.3
Winston	100 mm, filter, menthol	19	1.3
Pall Mall	100 mm, filter, menthol	17	1.3
Tareyton	king size, filter	20	1.3
Peter Stuyvesant	king size, filter	20	1.4
Edgeworth Export	100 mm, filter	21	1.4
Safari	100 mm, filter	20	1.4
Tareyton	100 mm, filter	19	1.4
Pall Mall	100 mm, filter	19	1.4
Chesterfield	101 mm, filter	20	1.4
L & M	100 mm, filter	20	1.4
Old Gold 100's	100 mm, filter	21	1.4
Raleigh	king size, non-filter	24	1.5
Newport	100 mm, filter, menthol	20	1.5
Old Gold Straights	king size, non-filter	24	1.5
Montclair	king size, filter, menthol	19	1.5
Piedmont	reg. size, non-filter	24	1.5
Chesterfield	reg. size, non-filter	24	1.5
Peter Stuyvesant	100 mm, filter	22	1.5
English Ovals	reg. size, non-filter, (hard pack)	22	1.5
Home Run	reg. size, non-filter	20	1.5
Edgeworth Export	king size, filter, (hard pack)	22	1.6
Philip Morris Commander	king size, non-filter	26	1.6
Lucky Filters	100 mm, filter	21	1.6
Camel	reg. size, non-filter	25	1.6
Picayune	reg. size, non-filter	20	1.6
Lucky Strike	reg. size, non-filter	27	1.7
Fatima	king size, non-filter	28	1.7
Pall Mall	king size, non-filter	27	1.7
Chesterfield	king size, non-filter	29	1.8
Half & Half	king size, filter	25	1.8
Herbert Tareyton	king size, non-filter	30	1.9
Bull Durham	king size, filter	30	2.0
English Ovals	king size, non-filter, (hard pack)	28	2.1
Players	reg. size, non-filter, (hard pack)	31	2.1

1 TPM dry (tar) - milligrams total particulate matter less nicotine and water

PM3000764207

Source: https://www.industrydocuments.ucsf.edu/docs/qhvl0001

Listing of "Tar"[1] Values for Five (5) Testing Periods

Brand	Type	July 1972	Jan. 1973	Aug. 1973	Mar. 1974	Sept. 1974
Adam (white)*1	king size, filter	18	19	*	*	*
Adam (brown)*1	king size, filter	18	19	19	*	*
Adam (brown)*1	100 mm, filter	*	*	19	*	*
Alpine	king size, filter, menthol	15	15	15	14	13
Alpine	100 mm, filter, menthol, (hard pack)	*	*	*	15	14
American Brand	king size, filter, (hard pack)	19	*	*	*	*
American Brand	king size, filter	21	*	*	*	*
Belair	king size, filter, menthol	17	16	15	15	16
Belair	100 mm, filter, menthol	18	18	18	17	17
Benson & Hedges	reg. size, filter, (hard pack)	12	10	10	9	9
Benson & Hedges	king size, filter, (hard pack)	16	17	16	15	16
Benson & Hedges 100's	100 mm, filter	19	18	18	18	17
Benson & Hedges 100's	100 mm, filter, menthol	20	18	18	18	17
Bull Durham	king size, filter	30	29	29	30	30
Camel	reg. size, non-filter	25	25	25	23	25
Camel Filters	king size, filter	20	20	19	19	19
Camel Talls	100 mm, filter	20	*	*	*	*
Carlton 70's	reg. size, filter	1	1	2	1	2
Carlton	king size, filter	3	3	4	4	4
Carlton	king size, filter, menthol	4	3	3	3	4
Chesterfield	reg. size, non-filter	25	25	26	25	24
Chesterfield	king size, non-filter	28	29	28	29	29
Chesterfield	king size, filter	19	18	19	19	19
Chesterfield	king size, filter, menthol	18	18	19	18	18
Chesterfield	101 mm, filter	19	19	19	19	20
Domino	king size, non-filter	26	27	29	26	27
Domino	king size, filter	21	22	21	21	20
Doral	king size, filter	15	15	16	14	14
Doral	king size, filter, menthol	15	15	14	14	14
DuMaurier	king size, filter, (hard pack)	16	16	16	16	16
Edgeworth Export	king size, filter, (hard pack)	17	19	19	22	22
Edgeworth Export	100 mm, filter	17	19	19	20	21
English Ovals	reg. size, non-filter, (hard pack)	23	23	23	23	22
English Ovals	king size, non-filter, (hard pack)	28	30	28	29	28
Eve	100 mm, filter	18	17	18	18	18
Eve	100 mm, filter, menthol	17	17	18	17	17
Fatima	king size, non-filter	29	32	31	28	28
Frappe	king size, filter, menthol	9	9	9	11	9
Galaxy	king size, filter	20	19	18	18	15
Half & Half	king size, filter	24	24	24	25	25
Herbert Tareyton	king size, non-filter	29	29	31	30	30
Home Run	reg. size, non-filter	18	20	21	19	20
Iceberg 10	king size, filter, menthol	*	9	9	9	9
Iceberg 100's	100 mm, filter, menthol	*	*	*	*	8
Kent	reg. size, filter	10	9	*	*	*
Kent	king size, filter, (hard pack)	16	16	16	15	15
Kent	king size, filter	17	17	16	16	16
Kent	king size, filter, menthol	18	19	*	*	*
Kent	100 mm, filter	19	19	19	18	18
Kent	100 mm, filter, menthol	19	18	18	18	18
King Sano	king size, filter	7	6	6	6	7
King Sano	king size, filter, menthol	6	7	7	7	7
Kool	reg. size, non-filter, menthol	20	22	21	20	21
Kool	king size, filter, menthol	18	17	16	17	17
Kool Milds	king size, filter, menthol	*	*	13	13	14
Kool	100 mm, filter, menthol	18	17	17	17	17
L & M	king size, filter, (hard pack)	17	17	17	18	17
L & M	king size, filter	19	19	19	19	18
L & M	100 mm, filter	19	19	19	19	20
L & M	100 mm, filter, menthol	18	19	19	19	19
Lark	king size, filter	17	17	17	17	17
Lark	100 mm, filter	18	18	18	19	19
Life	100 mm, filter	10	10	10	12	12
Lucky Strike	reg. size, non-filter	27	29	29	28	27
Lucky Filters	king size, filter	21	*	*	*	*
Lucky Filters	100 mm, filter	22	22	22	23	21
Lucky Ten	king size, filter	10	9	9	9	10
Lucky Ten	100 mm, filter	*	*	*	10	*
Lucky 100's	100 mm, filter	*	*	*	*	10
Luke	king size, filter	*	*	*	*	17
Lyme	king size, filter, lime/menthol	15	14	*	*	*
Mapleton	reg. size, non-filter	27	*	28	*	30
Mapleton	king size, filter	24	24	24	23	23
Marlboro	king size, filter, (hard pack)	18	18	18	17	17
Marlboro	king size, filter	18	18	18	18	16
Marlboro	king size, filter, menthol	16	15	14	14	13
Marlboro	100 mm, filter, (hard pack)	19	18	18	17	16
Marlboro	100 mm, filter	19	18	18	18	17
Marlboro Lights	king size, filter	13	14	14	13	12

* Denotes varieties not available during market sampling
*1 Indicates color of paper
1 TPM dry (tar) - milligrams total particulate matter less nicotine and water

PM3000764208

Source: https://www.industrydocuments.ucsf.edu/docs/qhvl0001

Listing of "Tar"[1] Values for Five (5) Testing Periods

Brand	Type	July 1972	Jan. 1973	Aug. 1973	Mar. 1974	Sept. 1974
Marvels	reg. size, non-filter	*	21	*	*	18
Marvels	reg. size, filter	3	3	3	*	*
Marvels	king size, non-filter	24	25	25	24	30
Marvels	king size, filter	5	5	5	6	5
Marvels	king size, filter, menthol	4	5	5	4	4
Maryland	100 mm, filter, menthol	20	*	*	*	*
Maverick	king size, filter	20	20	*	*	*
Mermaid	100 mm, filter, menthol	20	19	19	*	*
Montclair	king size, filter, menthol	18	19	18	19	19
Multifilter	king size, filter, (plastic box)	15	14	14	13	12
Multifilter	king size, filter, menthol, (plastic box)	11	11	12	12	12
Newport	king size, filter, menthol, (hard pack)	19	19	19	18	18
Newport	king size, filter, menthol	19	19	18	17	18
Newport	100 mm, filter, menthol	22	21	22	21	20
Newport[2]	king size, filter, menthol, (hard pack)	19	20	*	*	*
Newport[2]	king size, filter, menthol	18	20	*	*	*
Newport[2]	100 mm, filter, menthol	24	23	*	*	*
Oasis	king size, filter, menthol	19	18	19	19	18
Old Gold Straights	reg. size, non-filter	20	21	21	20	21
Old Gold Straights	king size, non-filter	26	26	26	24	24
Old Gold Filters	king size, filter	20	20	19	17	18
Old Gold 100's	100 mm, filter	25	23	22	22	21
Pall Mall	king size, non-filter	27	27	29	28	27
Pall Mall	king size, filter, (hard pack)	18	*	*	*	*
Pall Mall Extra Mild	king size, filter, (hard pack)	*	10	9	10	10
Pall Mall Extra Mild	king size, filter	*	*	10	10	10
Pall Mall	king size, filter	20	20	*	*	*
Pall Mall	100 mm, filter, (hard pack)	18	*	*	*	*
Pall Mall	100 mm, filter, menthol, (hard pack)	18	*	*	*	*
Pall Mall	100 mm, filter	20	20	20	21	19
Pall Mall	100 mm, filter, menthol	18	17	17	17	17
Parliament	king size, filter, (hard pack)	15	15	15	15	14
Parliament	king size, filter	16	15	15	15	14
Parliament 100's	100 mm, filter	19	19	17	18	17
Parliament	king size, charcoal filter, (hard pack)	16	16	16	16	*
Parliament	king size, charcoal filter	15	16	15	16	*
Peter Stuyvesant	king size, filter	20	20	20	19	20
Peter Stuyvesant	100 mm, filter	20	19	19	20	22
Philip Morris	reg. size, non-filter	24	23	23	22	22
Philip Morris Commander	king size, non-filter	29	29	29	27	26
Picayune	reg. size, non-filter	19	19	20	20	20
Piedmont	reg. size, non-filter	23	25	25	25	24
Pinnacle	king size, filter	10	*	*	*	*
Players	reg. size, non-filter, (hard pack)	34	34	32	31	31
Raleigh	king size, non-filter	26	25	25	24	24
Raleigh	king size, filter	17	16	16	16	15
Raleigh	100 mm, filter	19	18	18	17	17
Raleigh Extra Mild	king size, filter	*	*	*	13	14
Redford	king size, filter	*	*	*	17	*
St. Moritz	100 mm, filter	22	20	20	19	19
St. Moritz	100 mm, filter, menthol	20	19	20	18	20
Safari	100 mm, filter	*	*	*	*	20
Salem	king size, filter, menthol	20	19	19	18	18
Salem	100 mm, filter, menthol	20	21	19	20	19
Sano	reg. size, non-filter	16	19	16	16	16
Sano	reg. size, filter	3	3	4	*	*
Silva Thins	100 mm, filter	16	15	16	17	16
Silva Thins	100 mm, filter, menthol	16	15	16	16	16
Spring 100's	100 mm, filter, menthol	20	20	20	20	19
Stratford	king size, non-filter	27	*	33	*	*
Stratford	king size, filter	18	*	20	*	*
Tareyton	king size, filter	21	19	21	21	20
Tareyton	100 mm, filter	20	20	21	21	19
Tempo	king size, filter	12	11	13	12	11
True	king size, filter	12	12	12	11	11
True	king size, filter, menthol	12	12	11	12	12
Twist	100 mm, filter, lemon/menthol	*	*	*	17	17
Vantage	king size, filter	12	11	10	11	11
Vantage	king size, filter, menthol	12	11	11	11	11
Viceroy	king size, filter	18	17	15	16	16
Viceroy	100 mm, filter	19	18	17	17	17
Viceroy Extra Mild	king size, filter	*	*	*	13	15
Virginia Slims	100 mm, filter	17	17	17	16	16
Virginia Slims	100 mm, filter, menthol	18	17	17	17	15
Vogue (black)	king size, filter, (hard pack)	28	29	30	31	30
Vogue (colors)	king size, filter, (hard pack)	21	20	22	22	22
Winston	king size, filter, (hard pack)	20	20	20	20	20
Winston	king size, filter	21	20	20	19	19
Winston	100 mm, filter	21	20	20	19	19
Winston	100 mm, filter, menthol	20	20	20	20	19

* *Denotes varieties not available during market sampling*
1 TPM dry (tar) - milligrams total particulate matter less nicotine and water
2 Test market cigarette with white overwrap

PM3000764209

Source: https://www.industrydocuments.ucsf.edu/docs/qhvl0001

Listing of Nicotine Values for Five (5) Testing Periods

Brand	Type	July 1972	Jan. 1973	Aug. 1973	Mar. 1974	Sept. 1974
Adam (white)	king size, filter	1.3	1.3	*	*	*
Adam (brown)*1	king size, filter	*	1.2	1.4	*	*
Adam (brown)*1	100 mm, filter	*	*	1.5	*	*
Alpine	king size, filter, menthol	1.1	1.0	1.0	0.9	0.9
Alpine	100 mm, filter, (hard pack)	*	*	*	0.9	0.9
American Brand	king size, filter, (hard pack)	1.3	*	*	*	*
American Brand	king size, filter	1.4	*	*	*	*
Belair	king size, filter, menthol	1.4	1.2	1.2	1.1	1.1
Belair	100 mm, filter, menthol	1.4	1.3	1.4	1.2	1.2
Benson & Hedges	reg. size, filter, (hard pack)	0.9	0.7	0.7	0.6	0.6
Benson & Hedges	king size, filter, (hard pack)	1.2	1.3	1.2	1.1	1.1
Benson & Hedges 100's	100 mm, filter	1.4	1.3	1.3	1.2	1.1
Benson & Hedges 100's	100 mm, filter, menthol	1.4	1.3	1.3	1.2	1.1
Bull Durham	king size, filter	2.0	1.8	2.0	2.0	2.0
Camel	reg. size, non-filter	1.6	1.6	1.6	1.5	1.6
Camel	king size, filter	1.4	1.3	1.3	1.3	1.3
Camel Talls	100 mm, filter	1.4	*	*	*	*
Carlton 70's	reg. size, filter	0.2	0.1	0.2	0.1	0.2
Carlton	king size, filter	0.3	0.3	0.4	0.3	0.3
Carlton	king size, filter, menthol	0.3	0.3	0.3	0.3	0.3
Chesterfield	reg. size, non-filter	1.6	1.5	1.6	1.5	1.5
Chesterfield	king size, non-filter	1.8	1.8	1.8	1.8	1.8
Chesterfield	king size, filter	1.4	1.3	1.4	1.4	1.3
Chesterfield	king size, filter, menthol	1.2	1.2	1.3	1.3	1.2
Chesterfield	101 mm, filter	1.4	1.5	1.5	1.4	1.4
Domino	king size, non-filter	1.4	1.5	1.6	1.3	1.3
Domino	king size, filter	1.2	1.3	1.3	1.2	1.2
Doral	king size, filter	1.1	1.0	1.1	1.0	1.0
Doral	king size, filter, menthol	1.1	1.1	1.1	1.0	1.0
DuMaurier	king size, filter, (hard pack)	1.2	1.2	1.2	1.1	1.1
Edgeworth Export	king size, filter, (hard pack)	1.1	1.3	1.4	1.7	1.6
Edgeworth Export	100 mm, filter	1.3	1.4	1.4	1.4	1.4
English Ovals	reg. size, non-filter, (hard pack)	1.8	1.8	1.7	1.7	1.5
English Ovals	king size, non-filter, (hard pack)	2.4	2.3	2.1	2.1	2.1
Eve	100 mm, filter	1.3	1.3	1.4	1.3	1.3
Eve	100 mm, filter, menthol	1.2	1.2	1.3	1.2	1.2
Fatima	king size, non-filter	1.8	1.9	1.9	1.8	1.7
Frappe	king size, filter, menthol	0.4	0.4	0.3	0.5	0.3
Galaxy	king size, filter	1.5	1.4	1.3	1.2	1.1
Half & Half	king size, filter	1.7	1.7	1.8	1.8	1.8
Herbert Tareyton	king size, non-filter	1.7	1.8	1.8	1.8	1.9
Home Run	reg. size, non-filter	1.4	1.5	1.6	1.6	1.5
Iceberg 10	king size, filter, menthol	*	0.6	0.6	0.6	0.6
Iceberg 100's	100 mm, filter, menthol	*	*	*	*	0.6
Kent	reg. size, filter	0.6	0.6	*	*	*
Kent	king size, filter, (hard pack)	1.0	1.0	1.0	0.9	0.9
Kent	king size, filter	1.1	1.1	1.0	1.0	1.0
Kent	king size, filter, menthol	1.1	1.2	*	*	*
Kent	100 mm, filter	1.3	1.3	1.2	1.2	1.2
Kent	100 mm, filter, menthol	1.3	1.2	1.3	1.2	1.2
King Sano	king size, filter	0.3	0.3	0.3	0.3	0.3
King Sano	king size, filter, menthol	0.3	0.3	0.3	0.3	0.3
Kool	reg. size, non-filter, menthol	1.5	1.4	1.4	1.2	1.3
Kool	king size, filter, menthol	1.5	1.4	1.3	1.3	1.3
Kool Milds	king size, filter, menthol	*	*	1.0	0.9	0.9
Kool	100 mm, filter, menthol	1.4	1.3	1.3	1.2	1.3
L & M	king size, filter, (hard pack)	1.2	1.2	1.3	1.3	1.2
L & M	king size, filter	1.4	1.4	1.4	1.3	1.2
L & M	100 mm, filter	1.5	1.5	1.5	1.4	1.4
L & M	100 mm, filter, menthol	1.3	1.3	1.4	1.3	1.3
Lark	king size, filter	1.2	1.2	1.2	1.2	1.2
Lark	100 mm, filter	1.2	1.3	1.3	1.3	1.3
Life	100 mm, filter	0.6	0.6	0.6	0.8	0.8
Lucky Strike	reg. size, non-filter	1.6	1.6	1.8	1.7	1.7
Lucky Filters	king size, filter	1.5	*	*	*	*
Lucky Filters	100 mm, filter	1.6	1.6	1.6	1.7	1.6
Lucky Ten	king size, filter	0.7	0.7	0.6	0.7	0.7
Lucky Ten	100 mm, filter	*	*	*	0.8	*
Lucky 100's	100 mm, filter	*	*	*	*	0.8
Luke	king size, filter	*	*	*	*	1.2
Lyme	king size, filter, lime/menthol	0.9	1.0	*	*	*
Mapleton	reg. size, non-filter	1.2	*	1.2	*	1.3
Mapleton	king size, filter	1.4	1.3	1.3	1.3	1.2
Marlboro	king size, filter, (hard pack)	1.3	1.3	1.2	1.1	1.1
Marlboro	king size, filter	1.3	1.3	1.2	1.2	1.1
Marlboro	king size, filter, menthol	1.1	1.0	1.0	0.9	0.9
Marlboro	100 mm, filter, (hard pack)	1.4	1.4	1.3	1.2	1.1
Marlboro	100 mm, filter	1.5	1.3	1.3	1.2	1.1
Marlboro Lights	king size, filter	1.0	1.1	1.0	0.9	0.9

* Denotes varieties not available during market sampling
*1 Indicates color of cigarette paper

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Source: https://www.industrydocuments.ucsf.edu/docs/qhvl0001

Listing of Nicotine Values for Five (5) Testing Periods

Brand	Type	July 1972	Jan. 1973	Aug. 1973	Mar. 1974	Sept. 1974
Marvels	reg. size, non-filter	*	0.8	*	*	0.6
Marvels	reg. size, filter	0.2	0.2	0.2	*	*
Marvels	king size, non-filter	0.9	1.0	1.0	0.9	1.1
Marvels	king size, filter	0.3	0.3	0.3	0.2	0.2
Marvels	king size, filter, menthol	0.2	0.2	0.2	0.2	0.2
Maryland	100 mm, filter, menthol	1.4	*	*	*	*
Maverick	king size, filter	1.6	1.6	*	*	*
Mermaid	100 mm, filter, menthol	1.5	1.4	1.4	*	*
Montclair	king size, filter, menthol	1.4	1.4	1.3	1.4	1.5
Multifilter	king size, filter, (plastic box)	1.1	1.1	1.0	0.9	0.9
Multifilter	king size, filter, menthol, (plastic box)	0.9	0.9	0.9	0.9	0.8
Newport	king size, filter, menthol, (hard pack)	1.1	1.2	1.3	1.2	1.2
Newport	king size, filter, menthol	1.2	1.3	1.3	1.2	1.2
Newport	100 mm, filter, menthol	1.3	1.4	1.6	1.5	1.5
Newport[1]	king size, filter, menthol, (hard pack)	1.4	1.5	*	*	*
Newport[1]	king size, filter, menthol	1.3	1.4	*	*	*
Newport[1]	100 mm, filter, menthol	1.7	1.7	*	*	*
Oasis	king size, filter, menthol	1.2	1.2	1.3	1.3	1.3
Old Gold Straights	reg. size, non-filter	1.2	1.2	1.3	1.3	1.2
Old Gold Straights	king size, non-filter	1.5	1.6	1.6	1.5	1.5
Old Gold Filters	king size, filter	1.3	1.3	1.2	1.1	1.1
Old Gold 100's	100 mm, filter	1.6	1.5	1.5	1.4	1.4
Pall Mall	king size, non-filter	1.7	1.8	1.9	1.8	1.7
Pall Mall	king size, filter, (hard pack)	1.3	*	*	*	*
Pall Mall Extra Mild	king size, filter, (hard pack)	*	0.7	0.6	0.7	0.7
Pall Mall Extra Mild	king size, filter	*	*	0.7	0.7	0.7
Pall Mall	king size, filter	1.4	1.3	*	*	*
Pall Mall	100 mm, filter, (hard pack)	1.3	*	*	*	*
Pall Mall	100 mm, filter, menthol, (hard pack)	1.4	*	*	*	*
Pall Mall	100 mm, filter	1.4	1.4	1.4	1.5	1.4
Pall Mall	100 mm, filter, menthol	1.3	1.3	1.3	1.3	1.3
Parliament	king size, filter, (hard pack)	1.1	1.0	1.0	0.9	0.9
Parliament	king size, filter	1.1	1.0	1.0	0.9	0.8
Parliament 100's	100 mm, filter	1.4	1.3	1.2	1.2	1.1
Parliament	king size, charcoal filter, (hard pack)	1.1	1.1	1.0	1.0	*
Parliament	king size, charcoal filter	1.1	1.1	1.0	1.0	*
Peter Stuyvesant	king size, filter	1.5	1.5	1.4	1.4	1.4
Peter Stuyvesant	100 mm, filter	1.6	1.5	1.4	1.4	1.5
Philip Morris	reg. size, non-filter	1.5	1.5	1.4	1.4	1.3
Philip Morris Commander	king size, non-filter	2.0	1.9	1.8	1.7	1.6
Picayune	reg. size, non-filter	1.5	1.5	1.6	1.6	1.6
Piedmont	reg. size, non-filter	1.5	1.5	1.5	1.5	1.5
Pinnacle	king size, filter	0.7	*	*	*	*
Players	reg. size, non-filter, (hard pack)	2.4	2.3	2.2	2.2	2.1
Raleigh	king size, non-filter	1.8	1.7	1.6	1.5	1.5
Raleigh	king size, filter	1.3	1.2	1.2	1.1	1.0
Raleigh	100 mm, filter	1.5	1.3	1.3	1.1	1.1
Raleigh Extra Mild	king size, filter	*	*	*	0.9	0.9
Redford	king size, filter	*	*	*	1.3	*
St. Moritz	100 mm, filter	1.6	1.5	1.4	1.3	1.2
St. Moritz	100 mm, filter, menthol	1.5	1.4	1.3	1.1	1.3
Safari	100 mm, filter	*	*	*	*	1.4
Salem	king size, filter, menthol	1.4	1.3	1.3	1.3	1.2
Salem	100 mm, filter, menthol	1.4	1.5	1.4	1.4	1.3
Sano	reg. size, non-filter	0.6	0.6	0.6	0.5	0.5
Sano	reg. size, filter	0.2	0.2	0.2	*	*
Silva Thins	100 mm, filter	1.1	1.1	1.2	1.2	1.2
Silva Thins	100 mm, filter, menthol	1.1	1.1	1.2	1.2	1.1
Spring 100's	100 mm, filter, menthol	1.2	1.2	1.2	1.2	1.1
Stratford	king size, non-filter	1.1	*	1.4	*	*
Stratford	king size, filter	0.8	*	0.9	*	*
Tareyton	king size, filter	1.4	1.3	1.4	1.4	1.3
Tareyton	100 mm, filter	1.4	1.4	1.5	1.5	1.4
Tempo	king size, filter	0.9	0.9	0.9	0.9	0.8
True	king size, filter	0.8	0.7	0.7	0.7	0.7
True	king size, filter, menthol	0.7	0.8	0.7	0.7	0.7
Twist	100 mm, filter, lemon/menthol	*	*	*	1.3	1.3
Vantage	king size, filter	0.9	0.8	0.8	0.8	0.7
Vantage	king size, filter, menthol	0.9	1.0	0.9	0.9	0.8
Viceroy	king size, filter	1.3	1.2	1.1	1.1	1.1
Viceroy	100 mm, filter	1.5	1.3	1.2	1.2	1.1
Viceroy Extra Mild	king size, filter	*	*	*	0.8	1.0
Virginia Slims	100 mm, filter	1.2	1.2	1.2	1.1	1.0
Virginia Slims	100 mm, filter, menthol	1.3	1.2	1.2	1.1	1.0
Vogue (black)	king size, filter, (hard pack)	1.1	1.2	1.2	1.3	1.1
Vogue (colors)	king size, filter, (hard pack)	0.9	0.9	0.9	0.9	0.8
Winston	king size, filter, (hard pack)	1.3	1.3	1.4	1.3	1.3
Winston	king size, filter	1.4	1.4	1.3	1.3	1.3
Winston	100 mm, filter	1.4	1.3	1.3	1.3	1.3
Winston	100 mm, filter, menthol	1.4	1.4	1.4	1.4	1.3

* Denotes varieties not available during market sampling
1 Test market cigarette with white overwrap

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